

9. A 40 foot ladder is leaning against a building. The foot of the ladder is 32 feet from the building. Find the angle that the ladder makes with the building.



$$\cos^{-1}\left(\frac{32}{40}\right) = 36.87^\circ$$

10. A 40 foot ladder which is leaning against a wall reaches the wall at a point 36 feet from the ground. Find the angle that the ladder makes with the ground.



$$\sin^{-1}\left(\frac{36}{40}\right) = 64.16^\circ$$

Use Properties of Special Right Triangles to solve the following problems: (30-60-90 and 45-45-90 ratio of sides)

27. **EVENT PLANNING** Grace is having a party, and she wants to decorate the gable of the house as shown. The gable is an isosceles right triangle and she knows that the height of the gable is 8 feet. What length of lights will she need to cover the gable below the roof line?



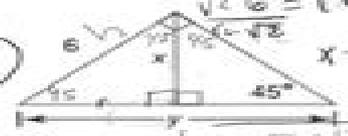
22.63 ft

Find x and y.

28.

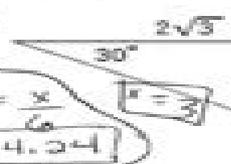


$x = \frac{13\sqrt{2}}{2}$ or 9.19
 $\text{hyp} = \text{leg} \cdot \sqrt{2}$
 $18.5 = x\sqrt{2}$
 $\sin 45 = \frac{x}{13}$



$\sqrt{2} \cdot 6 = \text{leg} \cdot \sqrt{2}$
 $x = 2\sqrt{2}$
 $\cos 45 = \frac{x}{6}$
 $y = 8.49$ or $6\sqrt{2}$

30.



$2\sqrt{3} = 2 \cdot \text{short leg}$
 $x = \sqrt{3} \cdot \sqrt{3}$
 $\sqrt{3} = \sqrt{3} \cdot y$
 $y = 1$

31.



$\text{hyp} = \sqrt{2} \cdot 5\sqrt{2}$
 $5\sqrt{2} = \sqrt{2} \cdot x$
 $y = 10$
 $x = 5$

32.



$3\sqrt{3} = \sqrt{3} \cdot y$
 $3 = y$
 $x = 2 \cdot 3\sqrt{3}$
 $x = 6\sqrt{3}$

33.



$\text{hyp} = \text{leg} \cdot \sqrt{2}$
 $y = 12 \cdot \sqrt{2}$
 $x = 45^\circ$

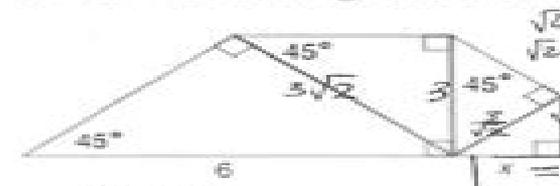
Find x, y, and z.



$\sqrt{2} \cdot 18 = \frac{x \cdot \sqrt{2}}{\sqrt{2}}$
 $\frac{18\sqrt{2}}{2}$
 $x = 9\sqrt{2}$
 $y = 6\sqrt{3}$

$\frac{\sqrt{3}}{\sqrt{2}} \cdot 18 = \frac{y \cdot \sqrt{3}}{\sqrt{3}}$
 $\frac{18\sqrt{3}}{3} = z = 12\sqrt{3}$

38. Each triangle in the figure is a 45-45-90 triangle. Find x.



$\frac{\sqrt{2}}{\sqrt{2}} \cdot \frac{3}{\sqrt{2}} = \sqrt{2} \cdot x$
 $\frac{3\sqrt{2}}{2} = \sqrt{2} \cdot x$
 $x = 1.5$ or $\frac{3}{2}$

$\sqrt{2} \cdot 6 = \sqrt{2} \cdot \text{leg}$
 $\frac{6\sqrt{2}}{2} = 3\sqrt{2}$
 $3\sqrt{2} = \sqrt{2} \cdot \text{leg}$
 $3 = \text{leg}$
 $\frac{3}{\sqrt{2}} = \frac{\sqrt{2} \cdot \text{leg}}{\sqrt{2}}$

Practice 8 2 Special Right Triangles Form G

ML Morrison

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle overlapping the right side of the bar.

Practice 8 2 Special Right Triangles Form G:

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